



VAT Vakuumventile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**All-Metal Angle Valve, Series 57.0, DN 100 (ID 4")**

**Ordering No. 57040-GE08-0005**

### Description

Flange	CF-R DN100
Actuator	manual, hexagon head SW27, with position indicator
Feedthrough	bellows

### Technical data

Leak rate	
- To the outside	$\leq 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$
- Seat	$\leq 1 \cdot 10^{-10} \text{ mbar ls}^{-1}$
Molecular flow conductance	380 $\text{ls}^{-1}$
Pressure range	UHV to 5 bar (abs)
Test pressure	1 bar
Differential pressure on the gate	
- in closing and opening direction	$\leq 5 \text{ bar}$
Max. differential pressure at opening	
- in closing and opening direction	1 bar (> 1 bar at reduced cycle lifetime)
Cycles until first service	10'000
Bake-out temperature	
Valve - open	$\leq 450^\circ\text{C}$
- closed	$\leq 350^\circ\text{C}$
Actuator	$\leq 300^\circ\text{C}$
Position indicator	$\leq 80^\circ\text{C}$
Heating and cooling rate	$\leq 60^\circ\text{C h}^{-1}$
Material	
- Body, Mechanism (in contact with media)	1.4435/1.4404, AISI 316 L; 1.4435, AISI 316 L, ESU
- Bellows	1.4404, AISI 316 L
Seal	
- Bonnet, Plate	metal
Mounting position	any
Radiation resistance	
- Valve	$10^8 \text{ Gy (} 10^{10} \text{ rad)}$
- Actuator	$10^8 \text{ Gy (} 10^{10} \text{ rad)}$
- Pos. Indicator	$10^5 \text{ Gy (} 10^7 \text{ rad)}$
Position indicator	
- 1 switch for «open» and 1 switch for «close»	
- Contact rating	$\leq 50 \text{ V AC / DC; } \leq 1.2 \text{ A}$
- 7 pin connector	
Turns per stroke	6.4
Closing torque	90 Nm / 66 lbs
Weight	16.6 kg / 36.5 lbs

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### Dimensions

Dim. Drawing

504936

### Wiring diagram



Lo = position indicator open  
Lg = position indicator closed

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